Chapter Review

Word Building

Construct medical terms from the following meanings. The first question has been completed for you as an example.

1. a gradual and painful softening of bone
   - osteomalacia

2. abnormal loss of bone density
   - osteo_____________

3. paralysis of lower body, including both legs
   - ____________plegia

4. abnormal lateral curve of the spine
   - scoli__________

5. inflammation of a tendon and synovial membrane
   - teno__________

6. X-ray film of a joint
   - arthro__________

7. inflammation of a meniscus
   - _______________________itis

8. surgical incision into a joint
   - arthro__________

9. muscular weakness
   - my_________________

10. protrusion of muscle through its fascia
    - ____________tunnel syndrome

11. a repetitive stress injury of the wrist
    - arthro__________

12. a therapy in which a joint is loosened of its restrictions
   - arthro__________’s disease

13. a viral infection of bone that accelerates bone loss
    - arthro__________ disk

14. a rupture of an intervertebral disk
    - arthro__________

15. surgical repair of a joint
    - teno__________

16. pain in a tendon
    - burso__________osis

17. a calcium deposit within a bursa
    - ____________kinesia

18. abnormal condition of joint stiffness
    - ______________________ (do this one on your own!)

19. abnormally slow movements
    - arthro__________ degenerative

20. an abnormal reduction of calcium in bone
    - ____________trophy

21. surgical stabilization of a joint
    - myel__________

22. a progressive disease of the joints in which the cartilage degenerates; abbreviated DJD
    - ______________________

23. an orthopedic procedure in which metal rods and pins are attached from outside the skin surface to align a bone fracture
    - ______________________

24. a disease of unknown origin that produces widespread pain of musculoskeletal structures of the limbs, face, and trunk (but not joints)
    - _______________________myalgia

25. a tumor that forms in the red bone marrow
    - ______________________

26. lacking development, or wasting
Medical Report Exercises

Jorge Johnson

Read the following medical report, then answer the questions that follow.

PEARSON GENERAL HOSPITAL
5500 University Avenue, Metropolis, TX
Phone: (211) 594-4000 • Fax: (211) 594-4001

Medical Consultation: Orthopedics
Date: 6/15/2011
Patient: Jorge Johnson

Patient Complaint: Severe pain of the right ankle with any movement of the lower limb, which began during an injury while playing touch football 10 hours prior to check-in. The patient has also reported bleeding of the right ankle.

History: 35-year-old male African-American with no prior histories of musculoskeletal challenges. Social History: The patient is physically active, and reports the injury occurred during a weekend touch football game.

Family History: Father deceased at 82 years of age, Type 2 diabetic with COPD. Mother Type 2 diabetic with right amputation of lower limb at knee.

Allergies: None

Physical Examination: All vital signs are normal, with slightly elevated blood pressure of 127/84. Broken skin at right ankle at distal end of the tibia and fibula. Erythema and edema surrounding the right ankle and into the foot. Edema at the Achilles tendon. X-rays taken shortly after check-in indicate compound Pott’s fracture of right ankle.

Diagnosis: Compound Pott’s fracture of the distal end of the right tibia and fibula with tendinitis of Achilles tendon.

Treatment: Apply ice to wound and Achilles tendon immediately and elevate right leg. Prep for surgery. Ortho surgery to remove bone fragments and realign fracture. Close with sutures and cast right ankle and leg below the knee in plaster. Schedule follow-up in two weeks.

Jonathan McIntyre, M.D.

Comprehension Questions

1. What is the evidence supporting a diagnosis of a compound fracture?

2. Why are X-rays required before treatment can begin?

3. In what area of the body might a Pott’s fracture occur?
Case Study Questions

A 35-year-old patient named Jorge Johnson received injuries during a weekend touch football game in the park. Upon his arrival at emergency, he presented an open, or (a) ________ fracture of the distal end of the right tibia and fibula, pain, and discoloration of the ankle that suggested damage to a tendon, or (b) ________ tenderness or (c) ________ inflammation of all muscles of the right lower extremity, or (d) ________ fracture, with associated inflammation of the Achilles tendon, or generalized (e) ________.

myalgia
myositis
tendinitis
compound
polymyositis
Port's
PEARSON GENERAL HOSPITAL
5500 University Avenue, Metropolis, ID
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Medical Consultation: Orthopedics
Date: 10/22/2011
Patient: Debra Simpson
Patient Complaint: Difficulty moving, loss of ability to stand erect. Pain in both hands with a loss of dexterity.
History: 85-year-old widowed female with 3 adult children; complete hysterectomy at age 65.
Family History: Father and mother deceased in automobile accident 35 years ago; no histories on file.
Allergies: None
Physical Examination: All vital signs are normal. Kyphosis with dyskinesia observed. Hardened swelling and
erythema in the joints of the fingers. X-rays indicate a reduced bone density.
Diagnosis: Osteoporosis, osteoarthritis.
Treatment: Hormone therapy with calcium supplements and mild exercise for osteoporosis. Recommend NSAIDs
to help manage the OA.

Paula S. Medina, M.D.

Comprehension Questions
1. What is the diagnosis?

2. What term is abbreviated OA?

3. What is the meaning of the term osteoporosis?
Case Study Questions
The following case study provides further discussion regarding the patient in the medical report. Recall the terms from this chapter to fill in the blanks with the correct terms.

Debra Simpson, an 85-year-old female, was initially seen by her personal general practitioner when she complained of difficulty in movement, or (h) ________________, and joint pain, or (i) ________________, of both wrists. The GP referred her to (j) ________________ due to an abnormal bent-over posture, called a (k) ________________, the presence of a minor back hump, or (l) ________________, and X-ray exams that indicated a loss of bone density. Based on these findings, the initial diagnosis was (m) ________________. The orthopedist also reported advanced joint degeneration in her carpometacarpal and metacarpophalangeal joints that was diagnosed as (n) ________________ due to her advanced age. Treatments were prescribed to include hormone therapy with calcium supplements and mild exercise for the bone loss, and NSAIDs for OA management.

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